

Product datasheet for **SC330976**

TREM2 (NM_001271821) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TREM2 (NM_001271821) Human Untagged Clone
Tag: Tag Free
Symbol: TREM2
Synonyms: PLOSL2; TREM-2; Trem2a; Trem2b; Trem2c
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330976 representing NM_001271821.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGAGCCTCTCCGGCTGCTCATCTTACTCTTTGTACAGAGCTGTCCGGAGCCACAACACCACAGTG  
TTCCAGGGCGTGGCGGGCCAGTCCCTGCAGGTGTCTTGCCCTATGACTCCATGAAGCACTGGGGGAGG  
CGCAAGGCCTGGTCCGCCAGCTGGGAGAGAAGGGCCCATGCCAGCGTGTGGTCAGCACGCACAACCTTG  
TGGCTGCTGTCTTCTGAGGAGGTGGAATGGGAGCACAGCCATCACAGACGATACCCTGGGTGGCACT  
CTCACCATTACGCTGCGGAATCTACAACCCCATGATGCGGGTCTCTACCAGTGCCAGAGCCTCCATGGC  
AGTGAGGCTGACACCCTCAGGAAGTCTGGTGGAGGTGCTGGCAGACCCCTGGATCACGGGGATGCT  
GGAGATCTCTGGTTCCCGGGGAGTCTGAGAGCTTCGAGGATGCCCATGTGGAGCACAGCATCTCCAGG  
GCTGAGAGACACGTGAAGGAAGATGATGGGAGGAAAAGCCAGGAGAAGTCCCACCAGGGACCAGCCCA  
GCCTGCATACTTGCCACTTGGCCACCAGGACTCCTTGTCTGCTCTGGCAAGAGACTACTCTGCCTGAA  
CACTGCTTCTCCTGGACCCTGGAAGCAGGGACTGGTTGA
```

Restriction Sites: SgfI-MluI
ACCN: NM_001271821
Insert Size: 660 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001271821.1](#)

RefSeq Size: 882 bp

RefSeq ORF: 660 bp

Locus ID: 54209

UniProt ID: [Q9NZC2](#)

Cytogenetics: 6p21.1

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

MW: 24.3 kDa

Gene Summary: This gene encodes a membrane protein that forms a receptor signaling complex with the TYRO protein tyrosine kinase binding protein. The encoded protein functions in immune response and may be involved in chronic inflammation by triggering the production of constitutive inflammatory cytokines. Defects in this gene are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOSL). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2012]

Transcript Variant: This variant (2), alternately referred to as TREM-2V, lacks a 3' coding exon which results in a frameshift, compared to variant 1. The resulting isoform (2) is shorter compared to isoform 1.